

Fig. 1

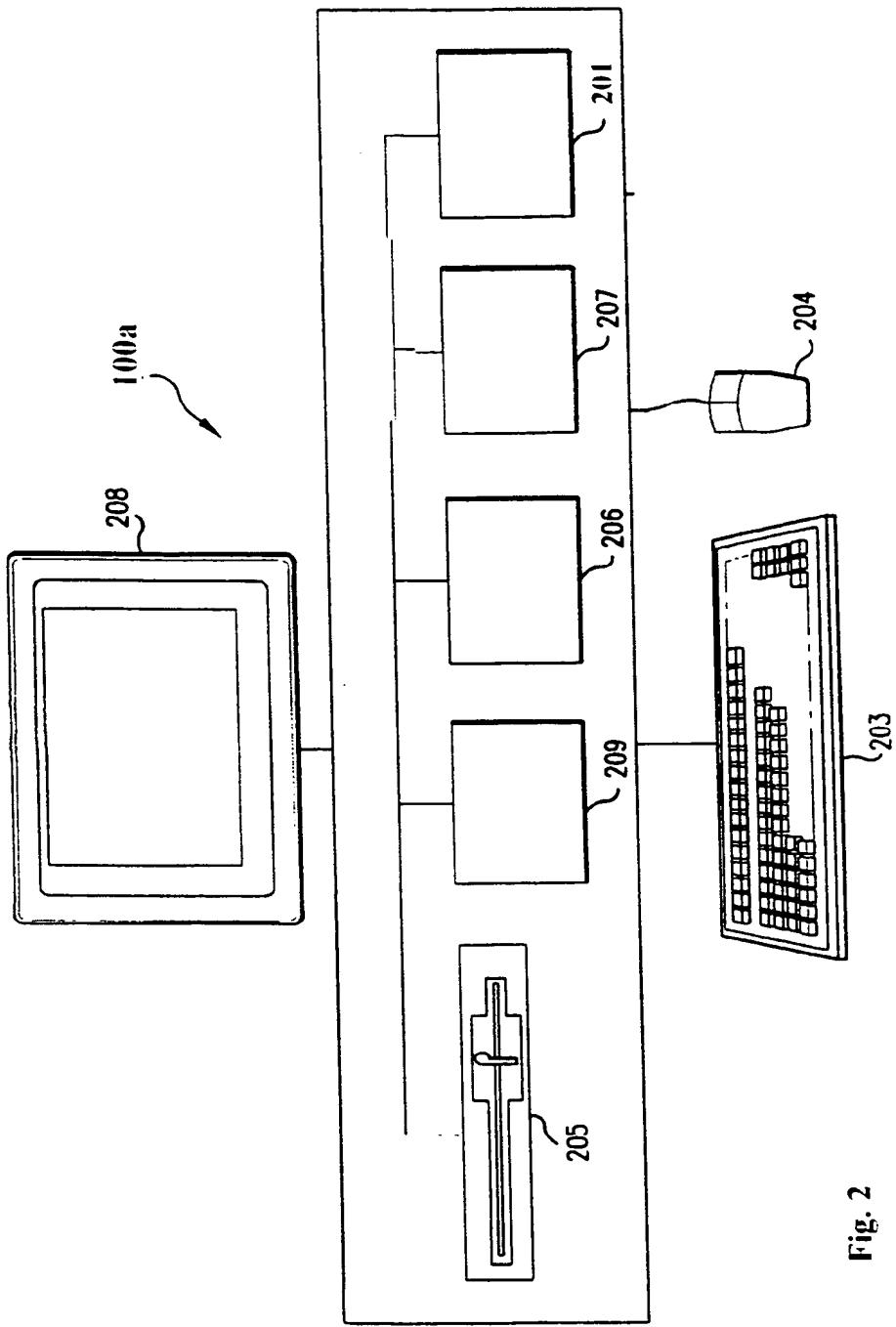


Fig. 2

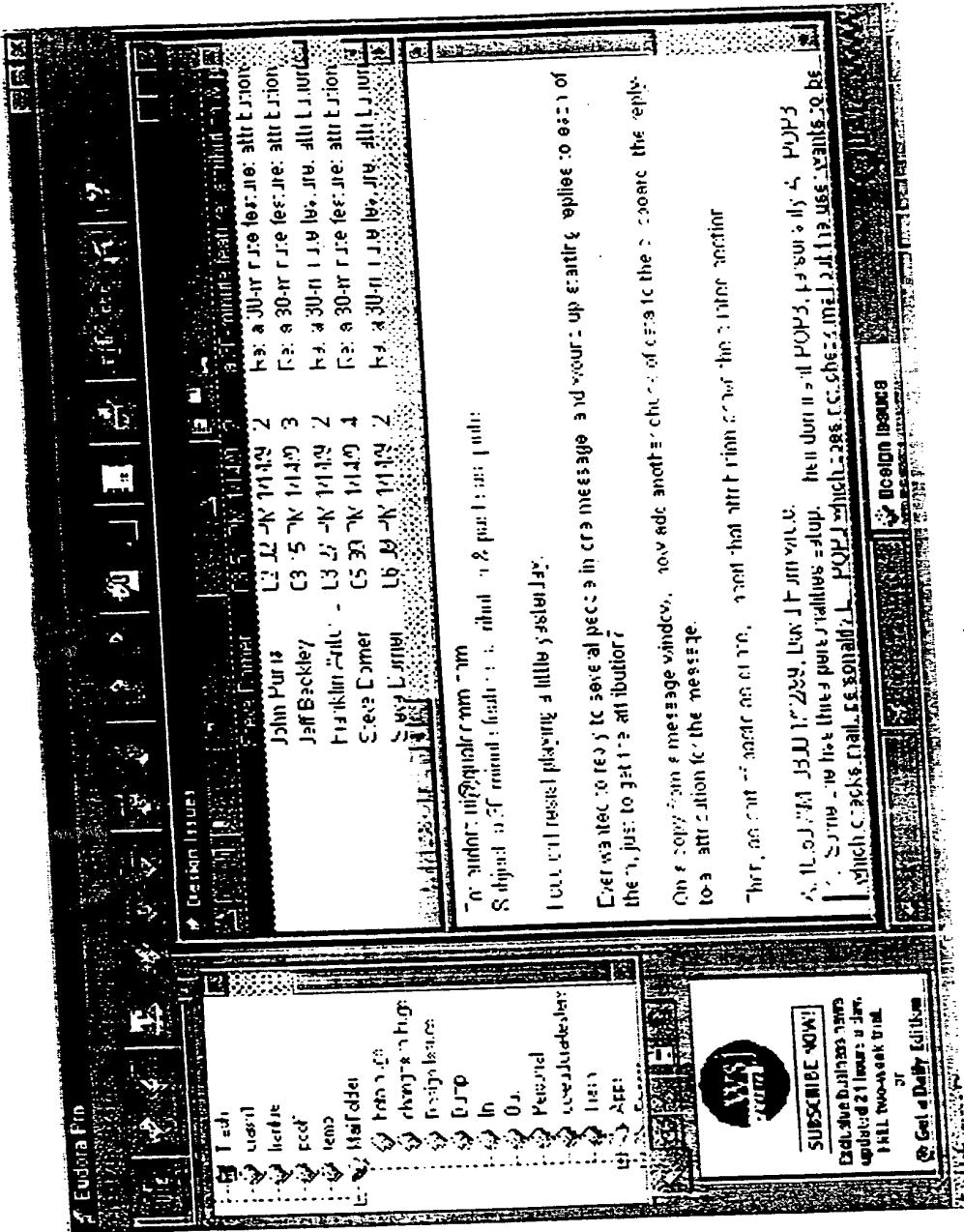


Fig. 3A

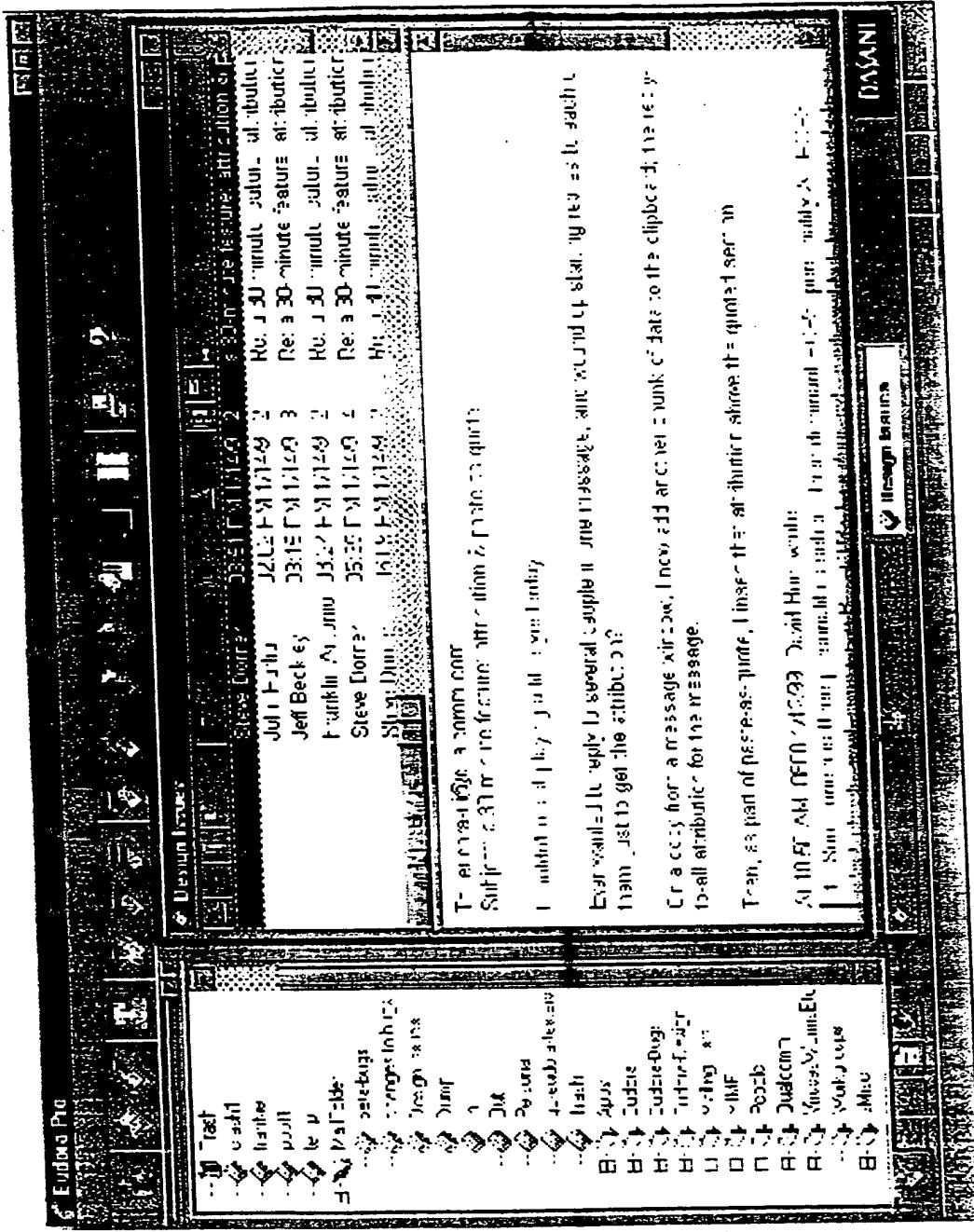


Fig. 3B.

0 3 6 9 12 15 18

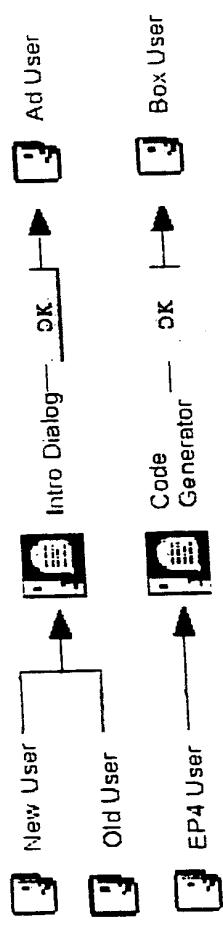


Fig. 4A

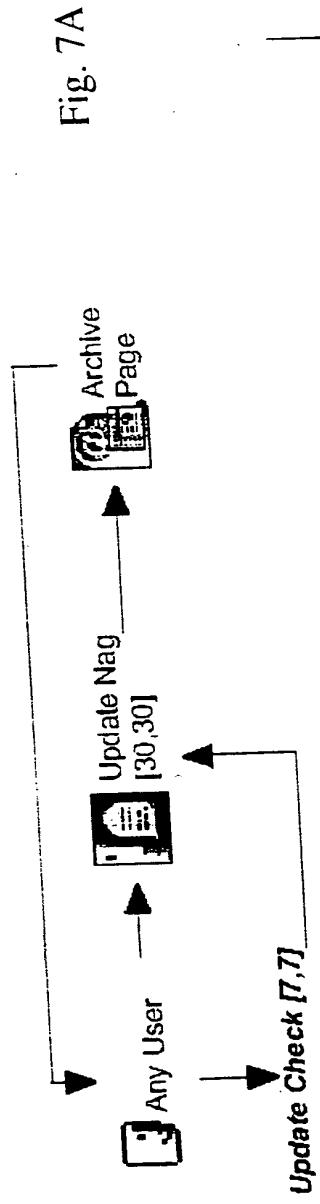


Fig. 7A

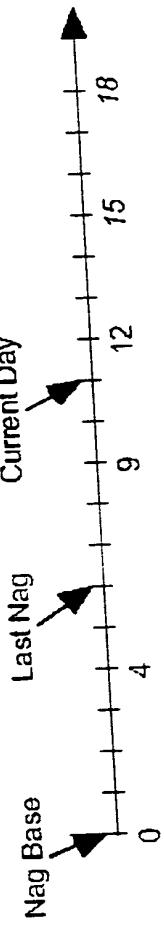


Fig. 11

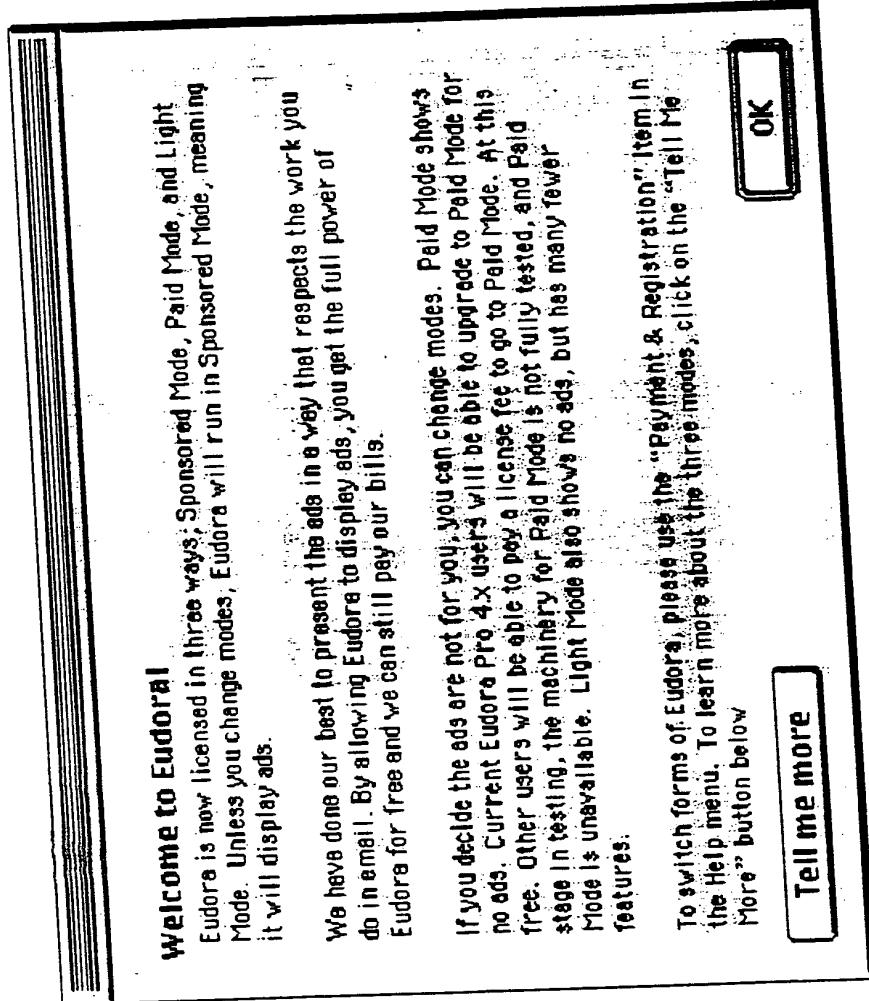


Fig. 4B

Fig. 5A

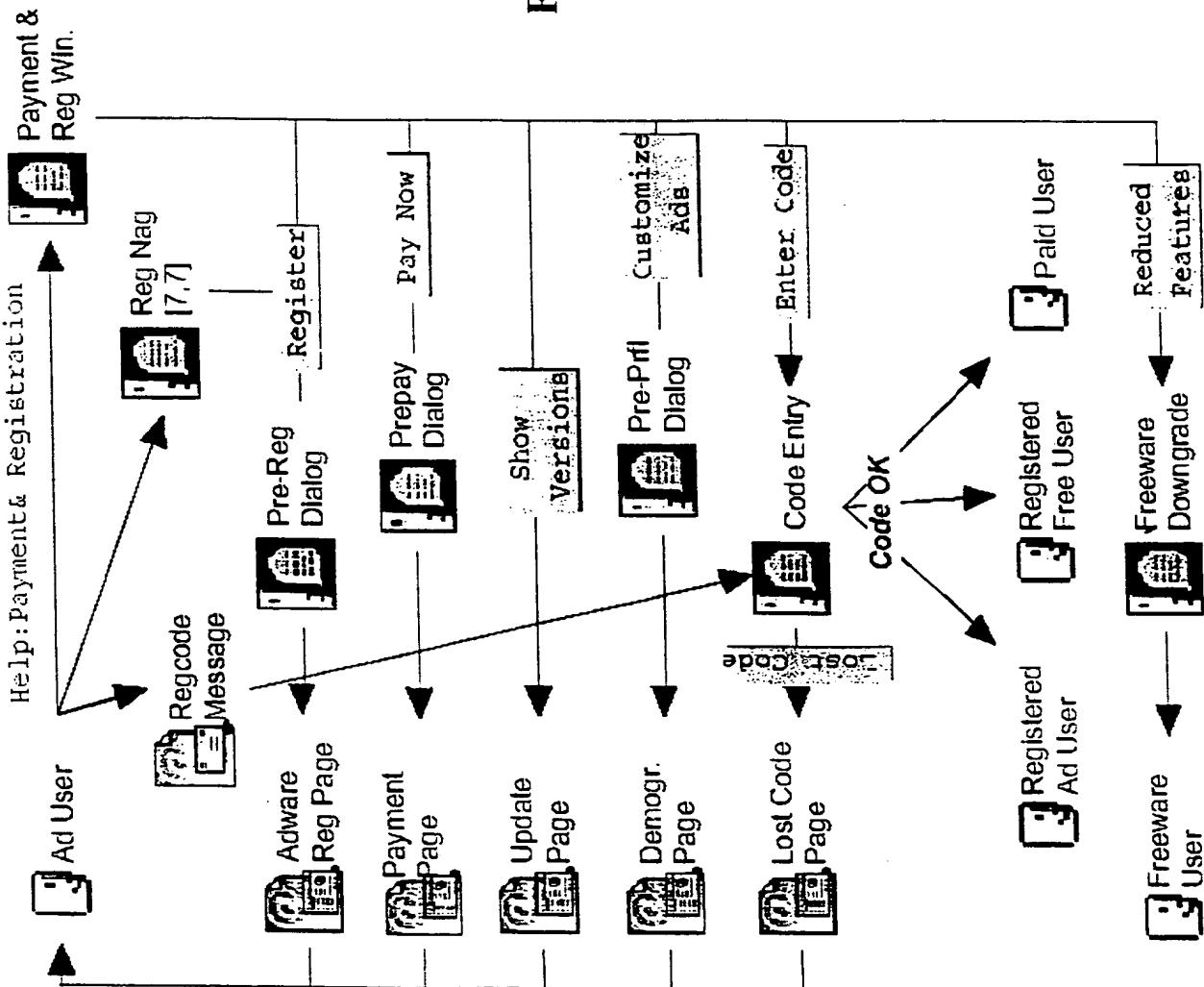
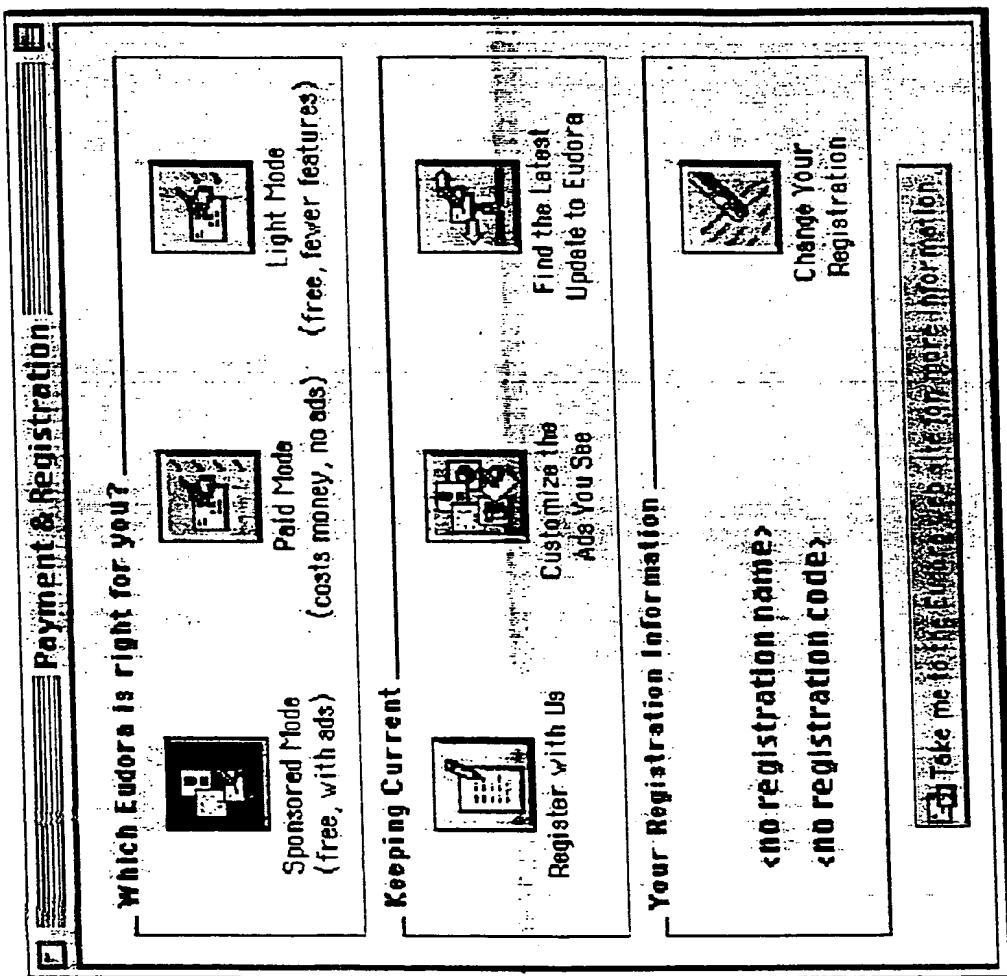


Fig. 5B



00 00 00 00 00 00 00 00 00 00

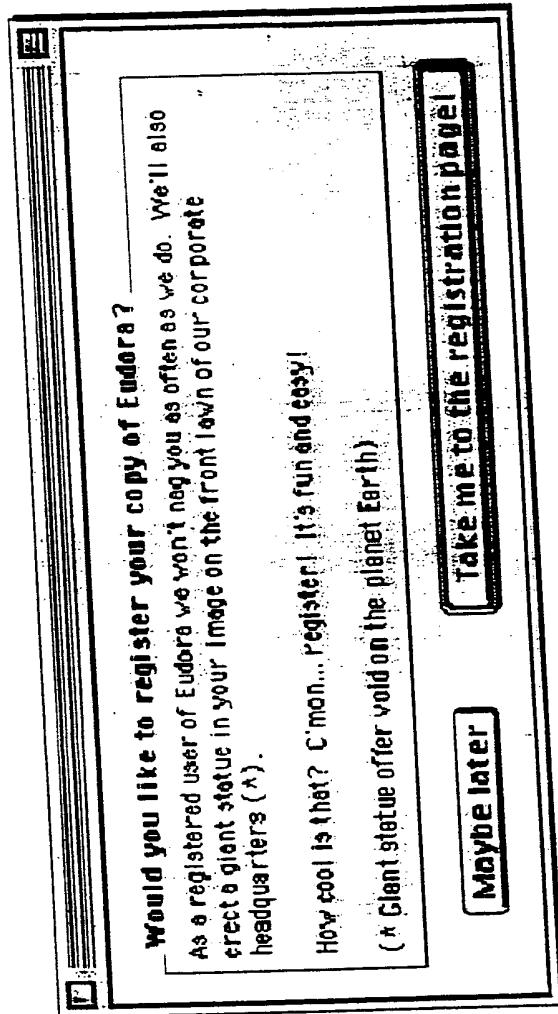


Fig. 5C

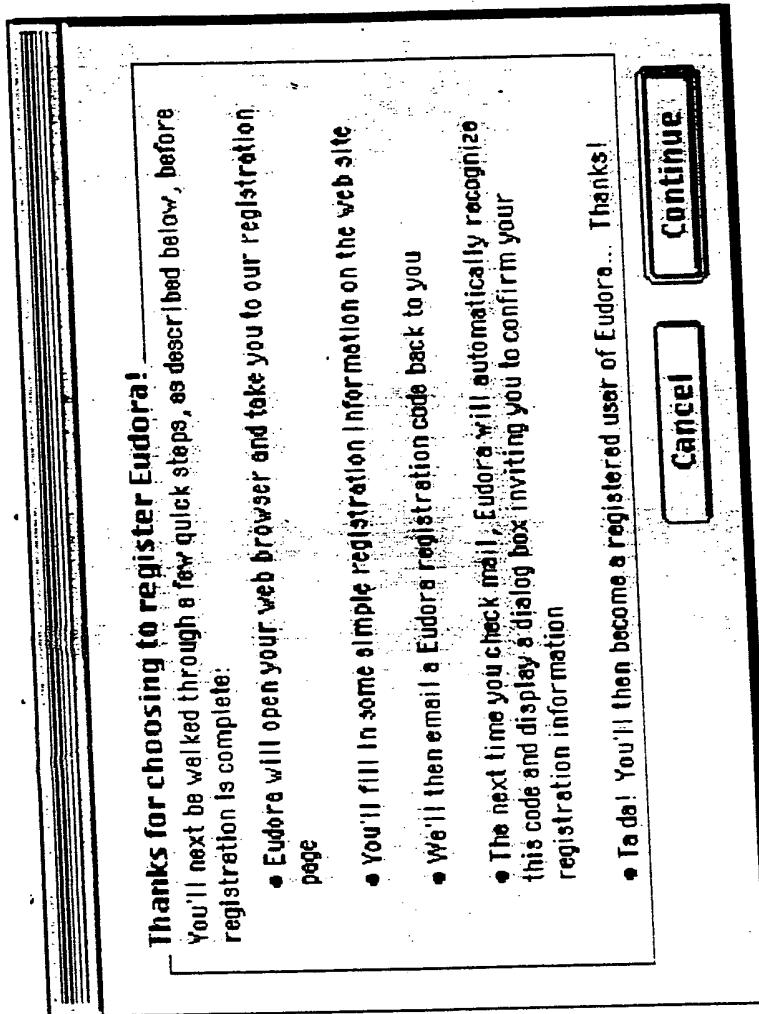


Fig. 5D

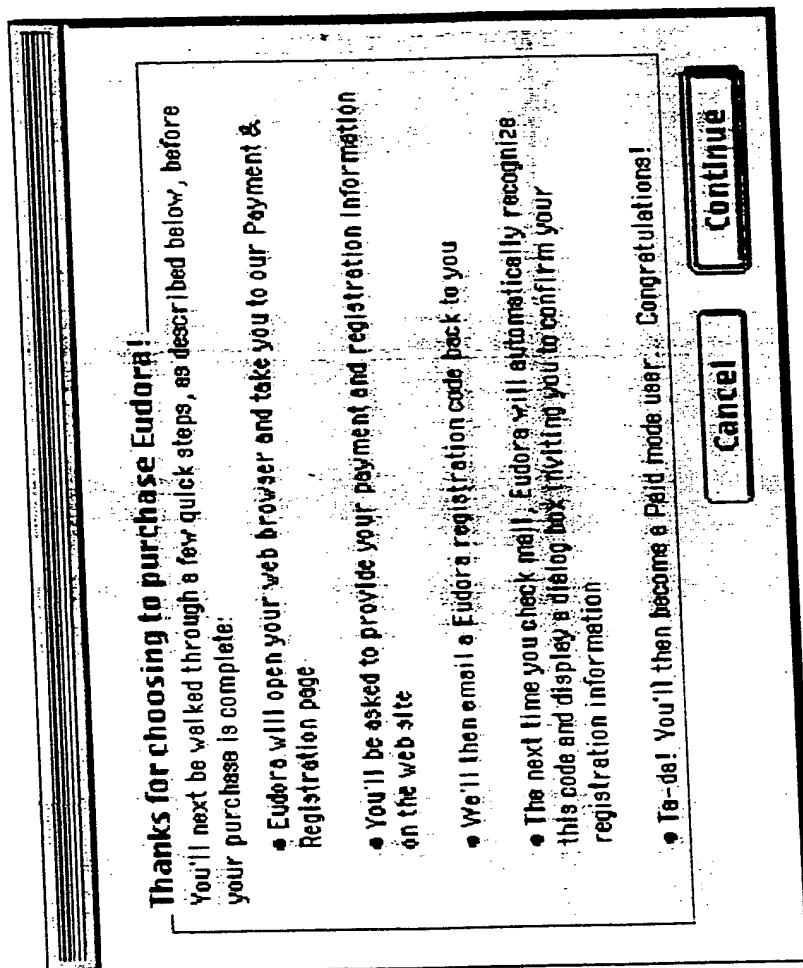
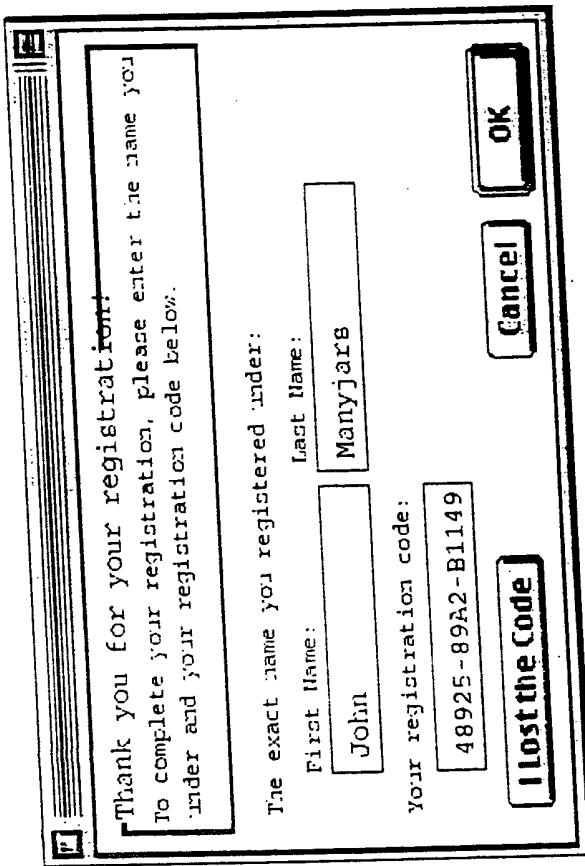


Fig. 5E

Fig. 5K



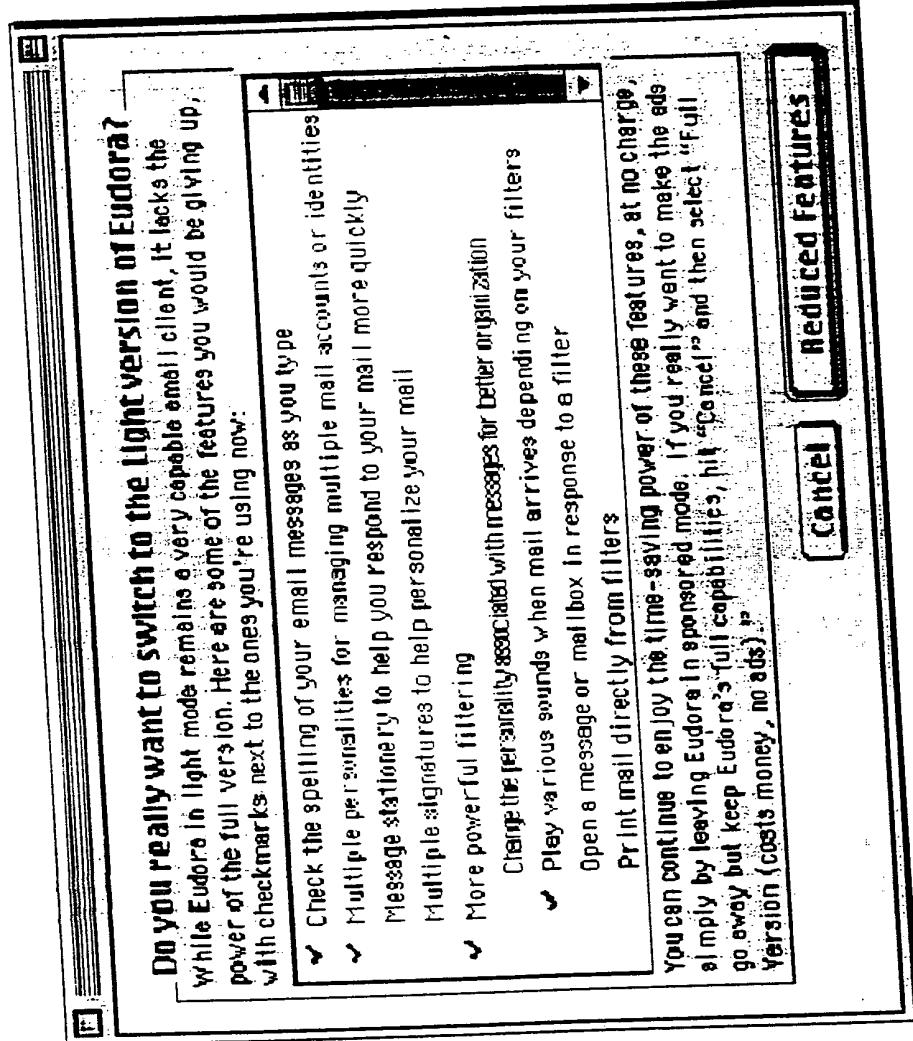


Fig. 5G

Fig. 6A

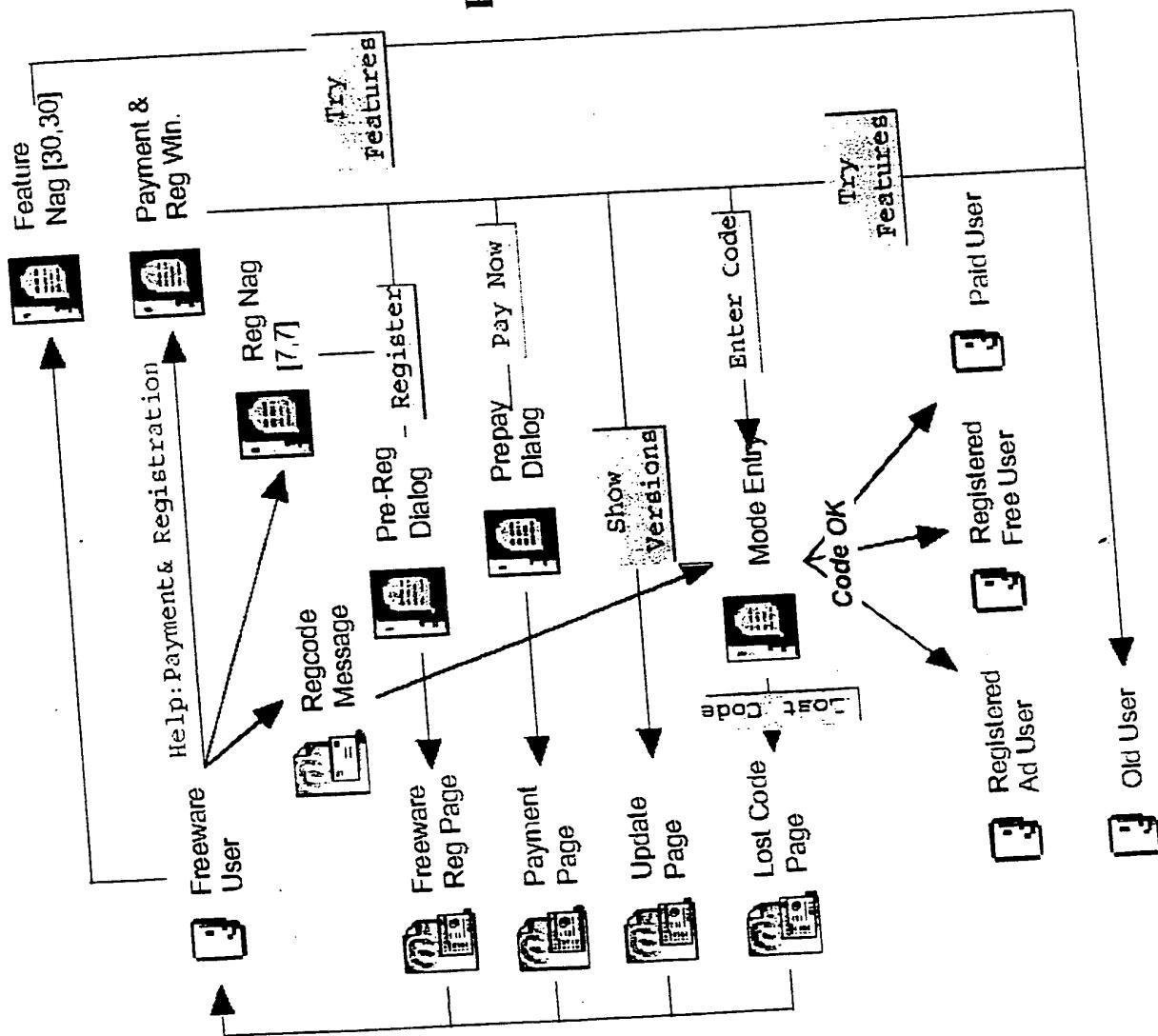
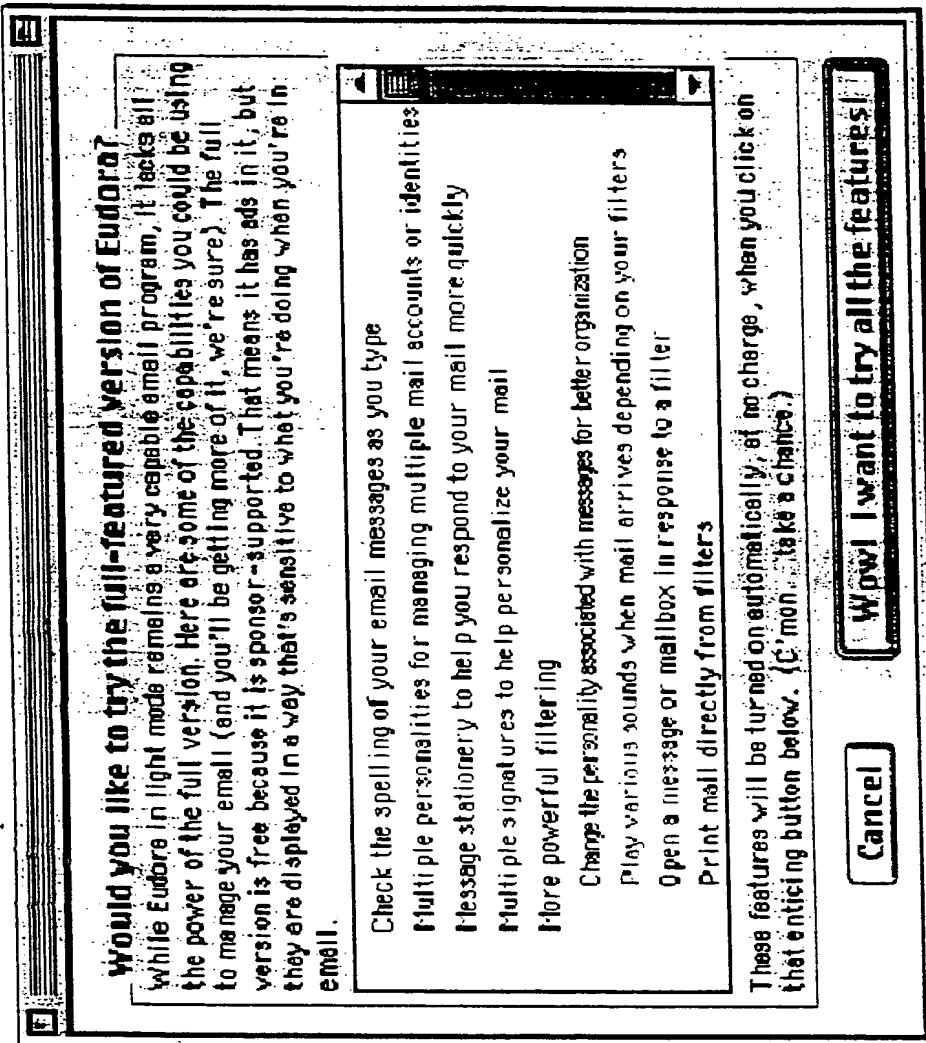


Fig. 6b



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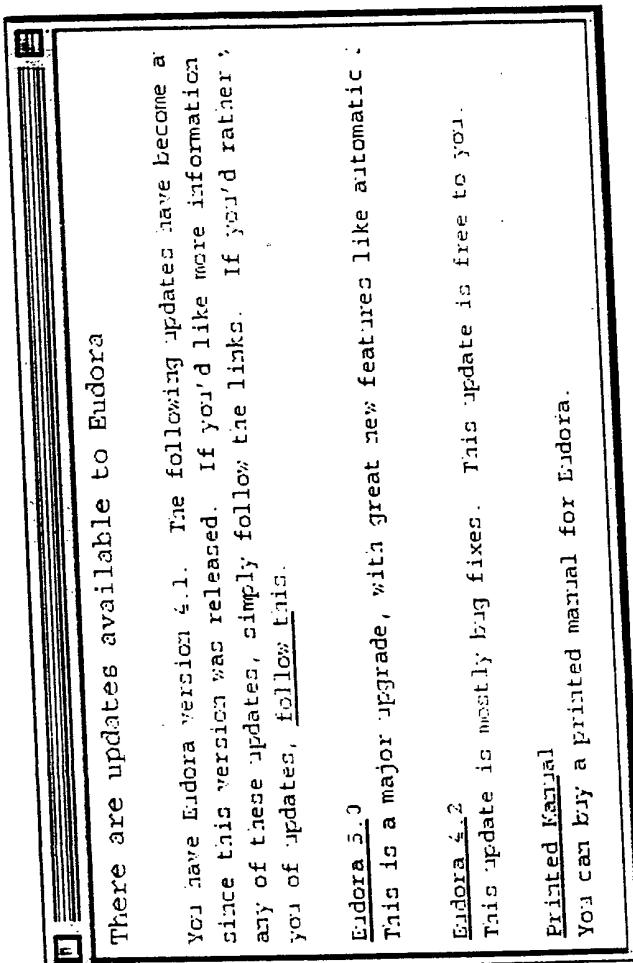
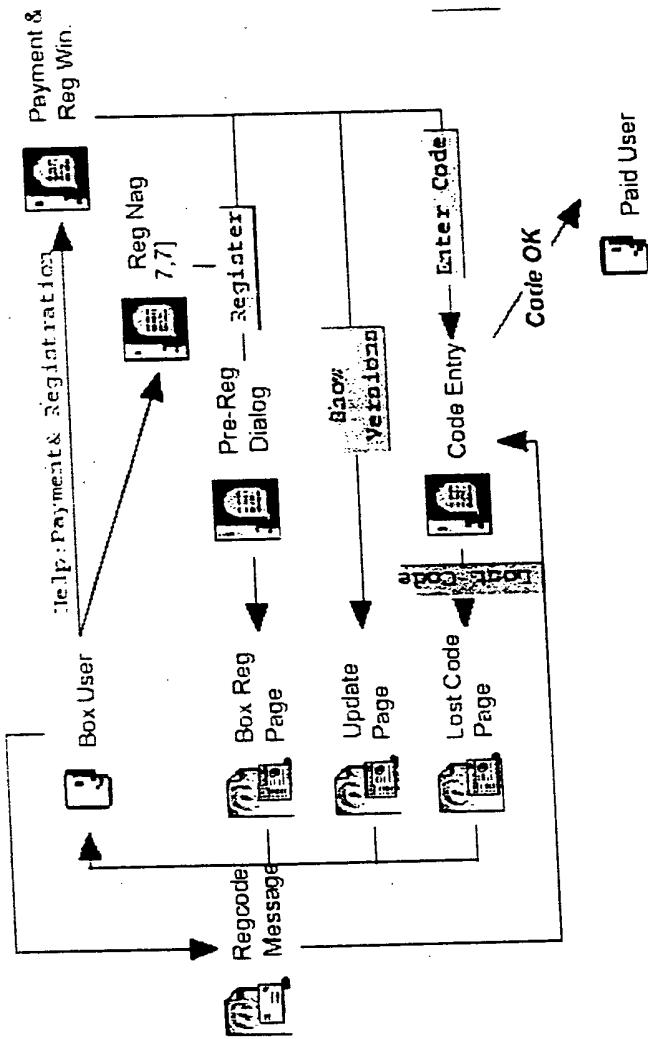


Fig. 7B

Fig. 8



00000000000000000000000000000000

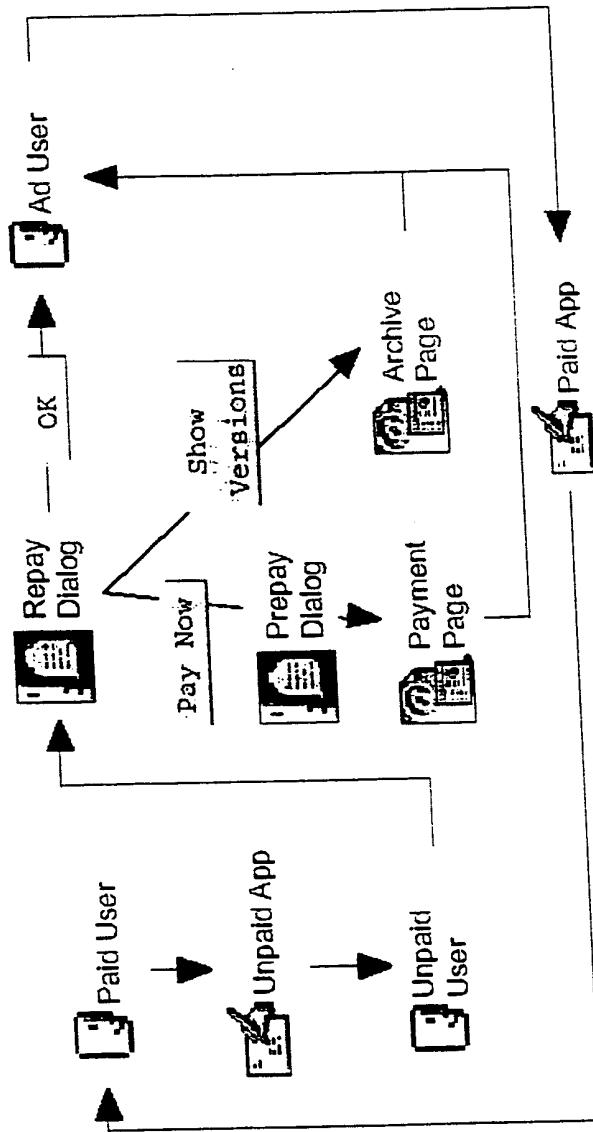
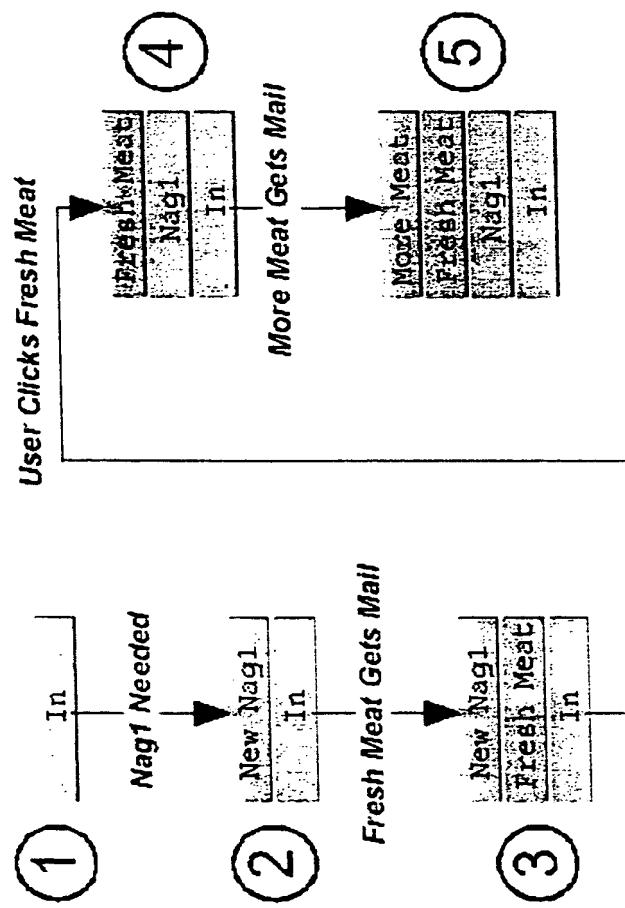


Fig. 9

Fig. 10



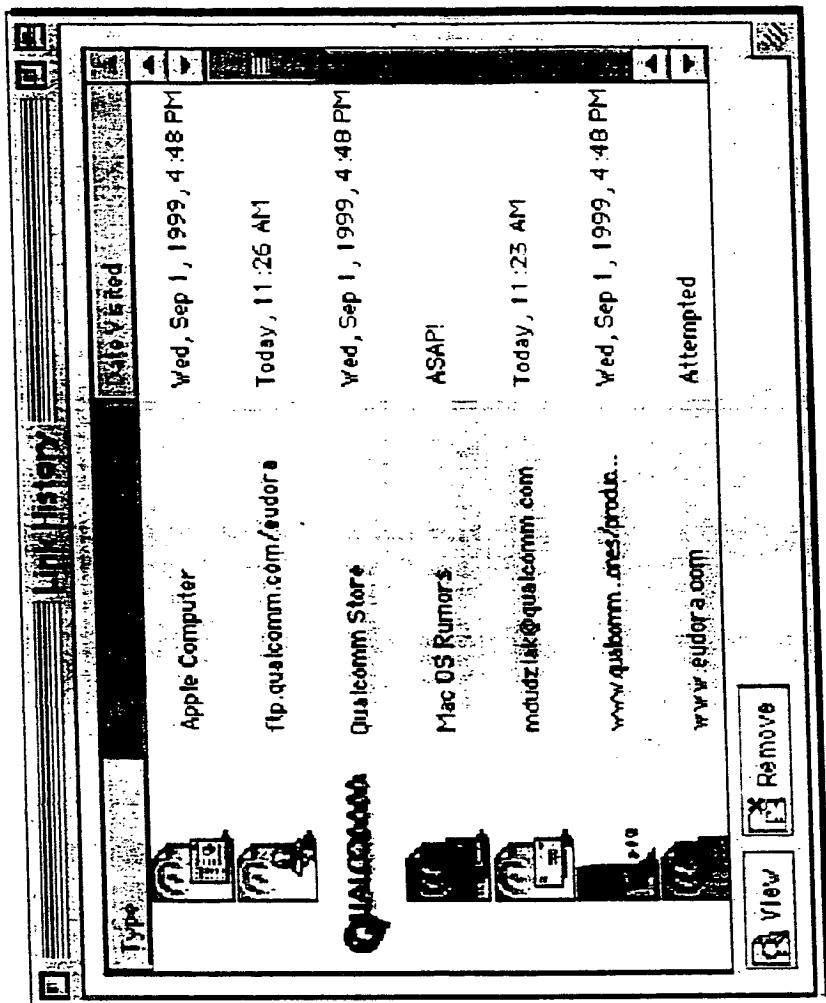


Fig. 12A

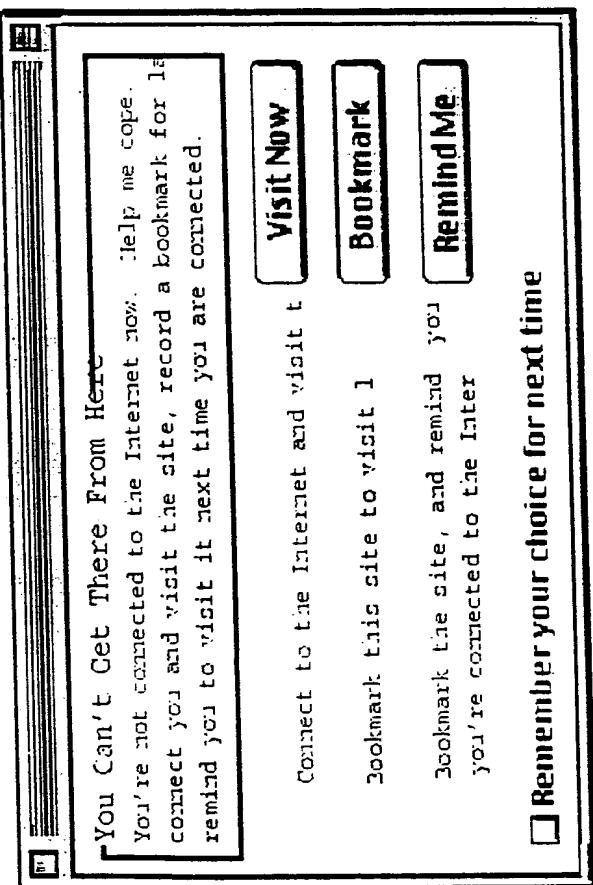


Fig. 12B

Revenue Line	
Average Current Speed, Miles	23.3
Average Ad Size, Bytes	9.1
Number of Users	2,000,000
Number of Hours Running Advers	2
Number of Clicks Per User Per Hour	2
Playline Size, Bytes	500

Fig. 13A

Implications	
# of New Ads Per h Second	3X Future Playline / Avg. Site Playline / User Per Download, Ad/Sec
User Per Download, Ad/Sec	100,000 Current Site Bandwidth 100,000
Day	Users
15	39
20	52
25	65
30	78
35	91
	191
	135
	185
	202
	235
	23
	23

Fig. 13B

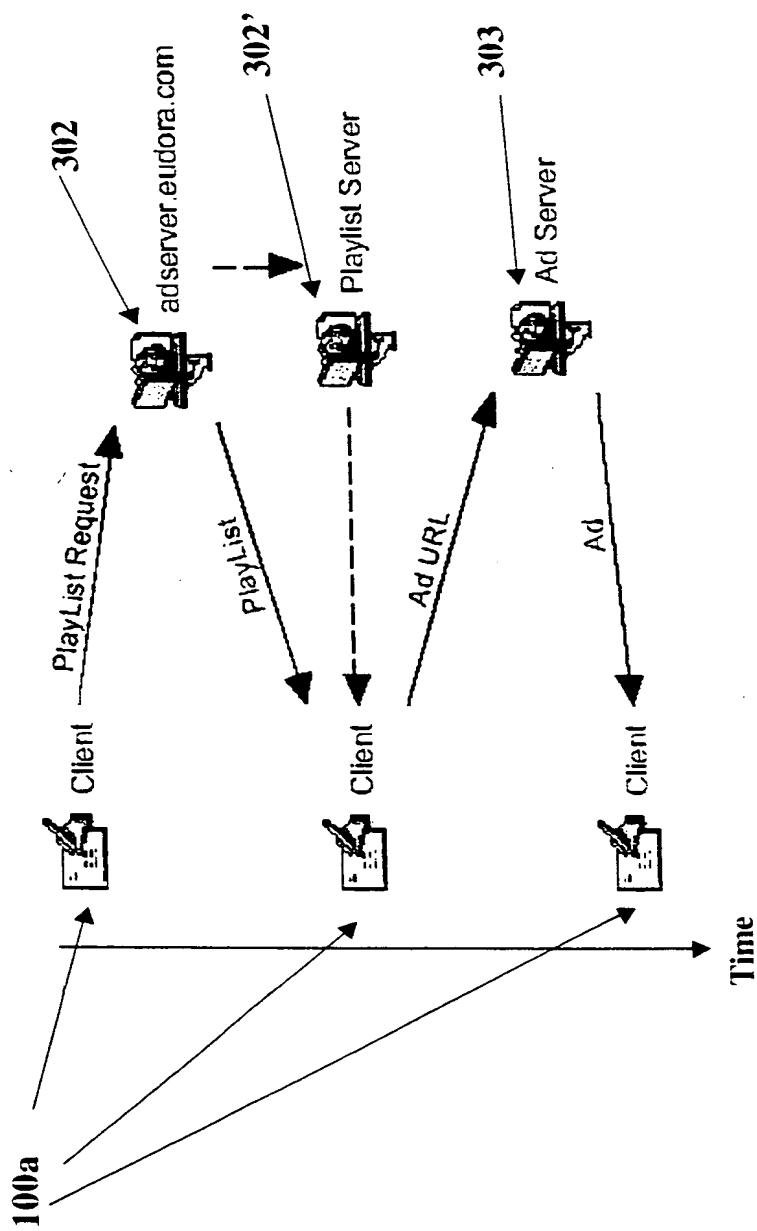


Fig. 14

CODE 2000 RELEASED BY SPIDER

```
///////////
// Main ad scheduler
ScheduleMain
{
// Has a new day dawned?
Do CheckForNewDay
// Are we are within the current ad's showFor?
if ( ad.thisShowTime < ad.showFor )
{
// there is nothing to be done
return
}
// At this point, we know that we need a new ad
// Perform housekeeping tasks on the old one
Do AdEndBookkeeping
// Pop out of a block if all ads on par
if ( block isn't all playlists )
{
find ad with minimum ad.numberShown
if ( ad.numberShown >= blockGoal )
set block to all playlists
}
// If we are over our quota of regular ads for the day,
// look for a runout
if ( adFaceTimeToday > faceTimeQuota )
{
Do ShowARunout
}
else
{
Do ShowARegularAd
}
}
// end ad schedule main
```

Fig. 15A

```
///////////
// We must perform certain tasks when the calendar day
changes.
CheckForNewDay
(if ( the calendar day has changed )
{
    // Perform housekeeping tasks on the ad currently showing
Do StopShowingCurrentAd
// Runout ads are charged for a full showFor if they've been
shown
// at all on a given day. Charge any runout ads if they've
been
// shown at all.
for runout ads
{
if ( ad.thisShowTime > 0 )
{
ad.totalTimeShown += ad.showFor
ad.thisShowTime = 0
}
}
// Now, reset the counters for all ads to reflect the fact
that
// a new day has dawned.
for all ads
{
ad.numberShownToday = 0
}
// Record yesterday's facetime
// Might not literally be yesterday, be sure to use
// whatever day the app was last run on
set old current day's facetime to totalFaceTimeToday
// and reset our global regular ad facetime counter
adFaceTimeToday = 0
totalFaceTimeToday = 0
// if we were in a block, back out
set block to all playlists
}
}
// end CheckForNewDay
```

Fig. 15B

```
///////////
// This function shows a runout ad, and if it
// can't find one, goes to a rerun
ShowARunout
{
for runout ads
{
// has the ad been flushed?
if ( ad.flushed )
try next ad
// are we done showing this runout today?
if ( ad.numberShownToday > ad.dayMax )
try next ad // this one's used up for the day
// are we done showing this runout for ever and ever?
if ( ad.shownFor > ad.showForMax )
try next runout ad // this one's used up forever
// are we between the ad's start and end dates?
if ( ad.startDate < the current date < ad.endDate )
try next runout ad
// the ad is not supposed to run today
// do we actually HAVE the ad?
if ( ad has not been downloaded )
{
ask for ad to be downloaded
try next ad
}
// ok, we believe we should show this runout
// we are now in runout state
Do ShowAnAd
return
}
// if we haven't found a runout ad, we will go to "rerun"
state
Do ShowARerun
}
// end ShowARunout
```

Fig. 15C

```
///////////
// Rerun state. Look for a regular ad to rerun
ShowARerun
{
for regular ads [ in current block ]
{
// has the ad been flushed?
if ( ad.flushed )
try next ad
// is this ad recent enough to rerun?
if ( ad.lastShownDate is older than returnInterval )
try next ad
// this one is too old to rerun
// if in block, show ads only if it's their "turn"
if ( ad.numberShownToday >= blockGoal )
try next ad // need to find a friend in this block
// are we between the ad's start and end dates?
if ( ad.startDate < the current date < ad.endDate )
try next ad
// the ad is not supposed to run today
// do we actually HAVE the ad?
if ( ad has not been downloaded )
{
ask for ad to be downloaded
try next ad
}
// ok, at this point we can show this ad, but because
// we're in rerun, we don't keep the books
Do ShowAnAd
return
}
// if we get here, we have no ads to show. Punt.
return
}
// end ShowARerun
```

Fig. 15D

```
//////////  
// Show a regular ad  
ShowARegularAd  
{  
for regular ads [ in current block ]  
{  
// has the ad been flushed?  
if ( ad.flushed )  
try next ad  
// are we done showing this ad today?  
if ( ad.numberShownToday > ad.dayMax )  
try next ad // this one's used up for the day  
// if in block, show ads only if it's their "turn"  
if ( ad.numberShownToday >= blockGoal )  
try next ad // need to find a friend in this block  
// are we done showing this ad for ever and ever?  
if ( ad.shownFor > ad.showForMax )  
try next ad // this one's used up forever  
// are we between the ad's start and end dates?  
if ( ad.startDate < the current date < ad.endDate )  
try next ad  
// the ad is not supposed to run today  
// do we actually HAVE the ad?  
if ( ad has not been downloaded )  
{  
ask for ad to be downloaded  
try next ad  
}  
// ok, we believe we should show this ad  
// we are now in regular state  
Do ShowAnAd  
return  
}  
// If we get here, we have failed to find a regular  
// ad. Go to runout  
Do ShowARunout  
}  
// end ShowARegularAd
```

Fig. 15E

```
///////////
// Perform necessary housekeeping when we're taking
// down an ad
AdEndBookkeeping
{
    // In rerun state, we don't do any bookkeeping
    if ( in RerunState )
        return
    // Account for at most ad.showFor seconds, provided
    // we've shown the ad for at least ad.showFor seconds
    // Note that this means we don't charge for time beyond
    // ad.showFor seconds, which is important
    if ( ad.thisShowTime >= ad.showFor )
    {
        ad.numberShownToday += ad.showFor
        ad.showFor++
        // we do NOT reset thisShowTime here, we do it in
        // AdStartBookkeeping. It actually doesn't matter where
        // we do it, provided we are careful NOT to do it for
        // runout ads.
    }
}
// end AdEndBookkeeping
```

Fig. 15F

```
///////////
// Show an ad, including bookkeeping and block handling
ShowAnAd
{
    // If the ad is in a block, notice that
    if ( it's in a "block" playlist )
    {
        if ( not currently in a block )
        {
            find ad in block with minimum numberShown
            make that our ad
            set blockGoal to minimum numberShown+1
        }
        set current block to this playlist
    }
    // now do bookkeeping
    Do AdStartBookkeeping
    // and actually show it
    Do DisplayThatAd
}
```

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Fig. 15G

```
//////////  
// Perform housekeeping when we put up an ad  
AdStartBookkeeping  
{  
// In rerun state, we don't do any bookkeeping  
if ( in RerunState )  
return  
// For regular ads  
if ( it's a regular ad )  
{  
ad.thisShowTime = 0  
ad.lastShownDate = now  
}  
}  
// end AdStartBookkeeping
```

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Fig. 15H

Persistent Ads		
PlayList Request	faceTime Used to determine how much advertising to send to client	faceTimeLeft Not used
PlayList Response ClientInfo	reqInterval Relatively large: one or more days flush Used. Single playlist completely specifies list of ads client should have	
PlayList Response Scheduling Parameters	showForMax Not used	

Fig. 16A

Short-Lived Ads		
PlayList Request	faceTime Not used	faceTimeLeft Used to determine how many ads client should receive
PlayList Response ClientInfo	reqInterval Not used. Instead, client requests new playlist whenever ads "run low". flush Not used	
PlayList Response Scheduling Parameters	showForMax Used to determine how long an ad runs	

Fig. 16B

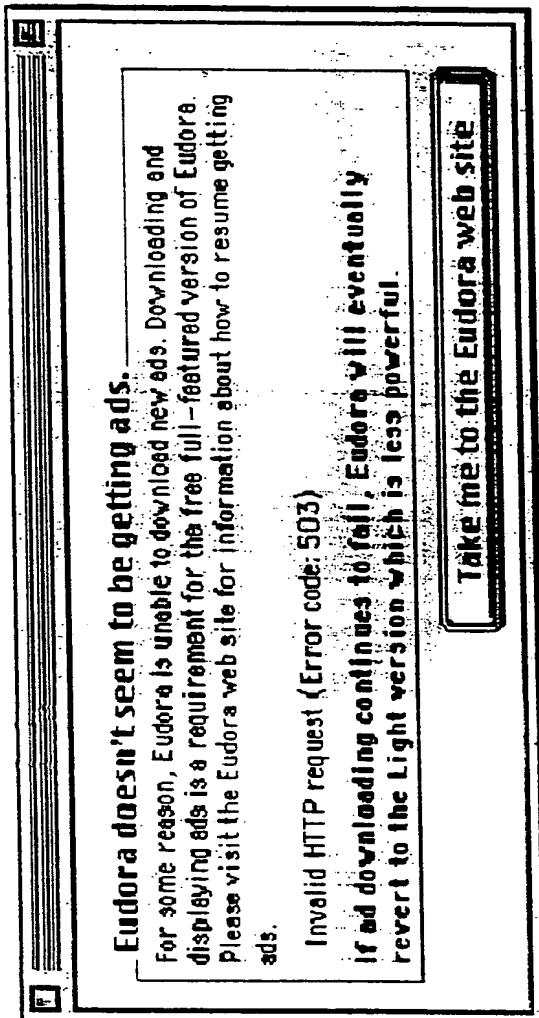


Fig. 17A



Something seems to be covering the ad.

It's probably inadvertent, but Eudora has determined that you are covering up all or a significant portion of an ad. The software is designed to notify you when this happens in the hopes that you will stop covering up the ad. If you don't, this window will keep popping up (which you will probably find quite annoying).

We've always got some good stuff under development back at the home office, and it's the advertising in Eudora that enables us to continue to develop the software while providing it to you for free. We've worked hard to make sure the advertising isn't annoying and we genuinely hope that you are not deliberately trying to cover the ads because they're bothering you. Of course, you can choose to pay us for Eudora by choosing "Payment & Registration" from the "Help" menu and clicking on "Paid Full Version." Or you can remove whatever is obscuring the ad.



Fig. 17B

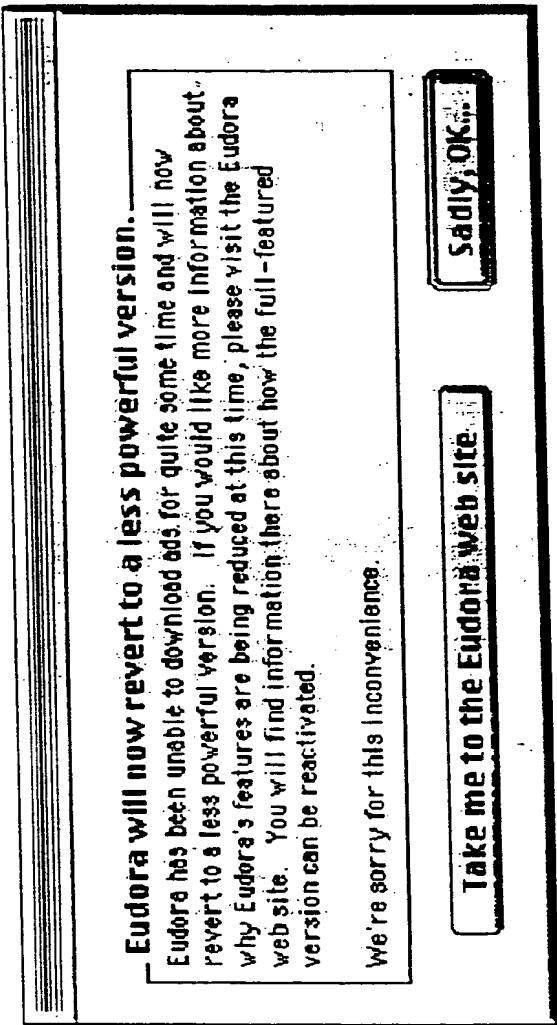


Fig. 17C

We'd like to know how you use Eudora.

In order to make Eudora work as well as possible, it's important that we know how people use it. We ask users for this information at random. Looks like it's your turn. If you're open to helping us this way, all you have to do is click "Generate Info" below and a message will be created. You can review the contents of the message if you like, and then send it to us or not -- that's up to you.

We value our privacy; we're pretty sure you value yours. So we want you to know what we'll be collecting and give you a chance to eliminate anything you don't want to send. Simply uncheck the boxes next to any information you'd rather not send.

Please understand that as soon as we receive your email, we will throw away the headers that identify the mail as coming from you. You see, we don't actually need to know who you are to find your information helpful. So we promise to protect your privacy and turn you into "just a number." -- ?

It's OK to transmit statistics regarding:

- Your demographic data
- Your Net/Eudora usage
- Eudora features you use
- Advertisement Information
- Non-personal settings

[Cancel](#)

[Generate Info](#)

Fig. 18A

Page	Applicable Query Parts											topic	
		action	platform	product	version	distributor	mode	email	realname	reglevel	profile	url	
Payment	pay	X	X	X	X	X	X	X	X	X	X		
Freeware Registration	register-free	X	X	X	X	X	X	X	X	X	X		
Adware Registration	register-ad	X	X	X	X	X	X	X	X	X	X		
Box Registrations	register-box	X	X	X	X	X	X	X	X	X	X		
Lost Code	lostcode	X	X	X	X	X	X	X	X	X	X		
Update	update	X	X	X	X	X	X	X	X	X	X		
Pro Update	proupdate	X	X	X	X	X	X	X	X	X	X		
Archived	archived	X	X	X	X	X	X	X	X	X	X		
Profile	profile	X	X	X	X	X	X	X	X	X	X		
Introduction	intro												
Support	n/a												
QuickTime Missing	support												
Ad Failure	support												
Tutorial	support												
FAQ	support												
Light Users	support												
Search Support	support												
Newsgroups	support												

Fig. 19

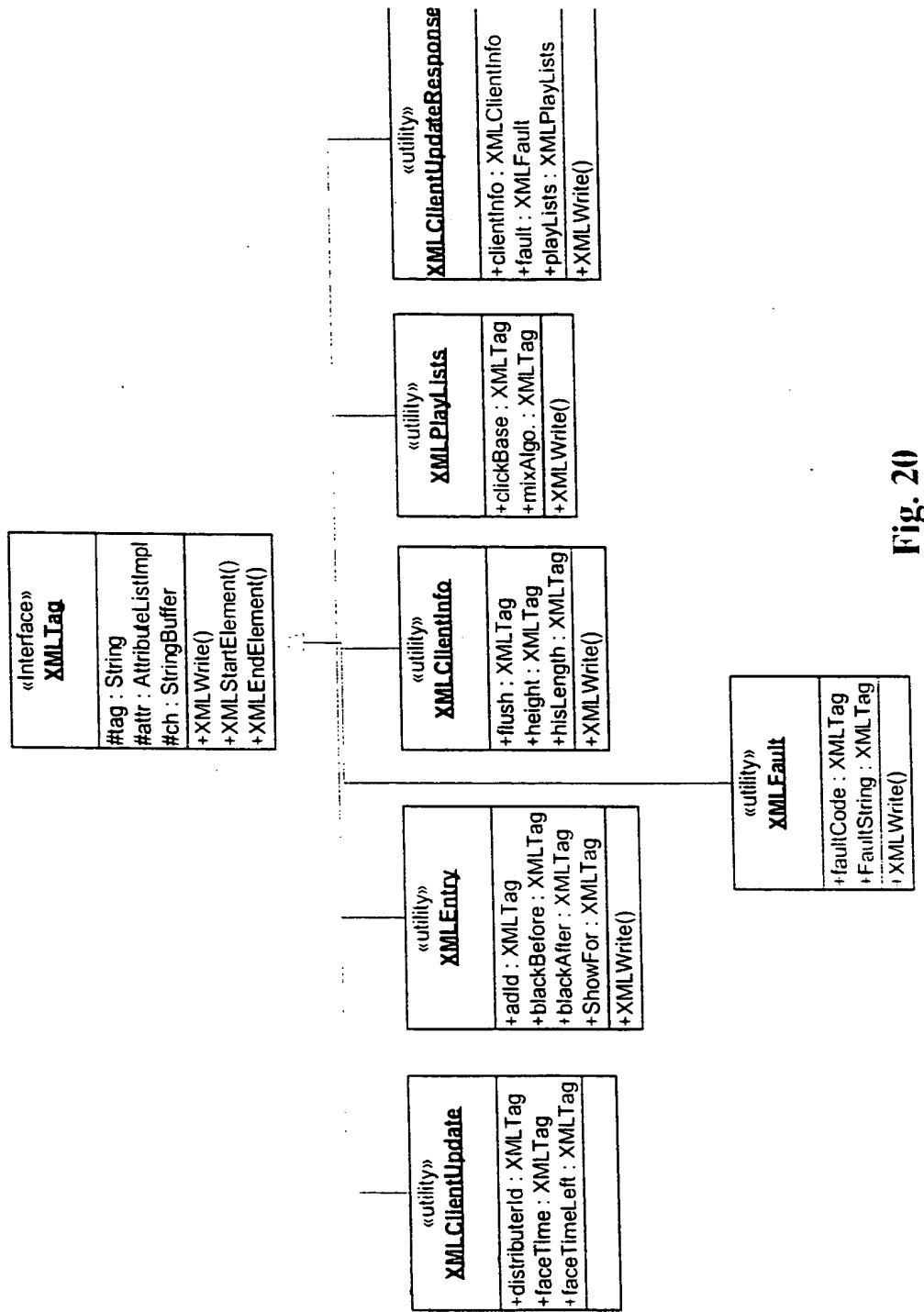


Fig. 20

- The list of available ads advantageously can be built from the following query:

```

ads = dbCon.prepareStatement("SELECT * FROM ads WHERE StartDate <= today AND endDate >= today + 30 AND
AdType = "P" AND AdStatus = "A" AND ImpressionsServed < Impressions ORDER BY ImpressionsServed ASC);

run out ads = dbCon.prepareStatement("SELECT * FROM ads WHERE StartDate <= today AND endDate >= today +
30 AND AdType = "R" AND AdStatus = "A" AND ImpressionsServed < Impressions ORDER BY ImpressionsServed
ASC);
```

- The time required to deliver the ads advantageously can be calculated in the following manner.

faceTimeLeftForToday [seconds] = faceTime[today] - faceTimeUsedToday

(Comment: Face time left for today is the number of seconds the servlet can use to deliver special ads today.)

```

predictFaceTime [seconds] = SUM( faceTime[tomorrow], faceTime[tomorrow + 1], ... faceTime[tomorrow + reqInterval]
)
```

(Comment: Predict face time is the number of seconds the servlet predicts the user is going to have.)

goalShowTimeLeft [seconds] = predictFaceTime - faceTimeLeft

(Comment: Goal show time left is the number of seconds that the software provider needs to fill with ads.)

Fig. 21A

```

8 Targeting
    while (face time left for today) {
        if ad is not in the history {
            select ad [according to target = today]
            face time left for today -= ad.showFor
        }
        next ad
    }

    while (goal show time left) {
        if ad is not in the history {
            select ad [according to target]
            goal show time left -= ad.showFor
        }
        next ad
    }

```

Default values:

`reqInterval = 1 day.`
`faceTime = 30 minutes`
`faceTimeQuota is ?`
`histLength = 31 days`

Fig. 21B

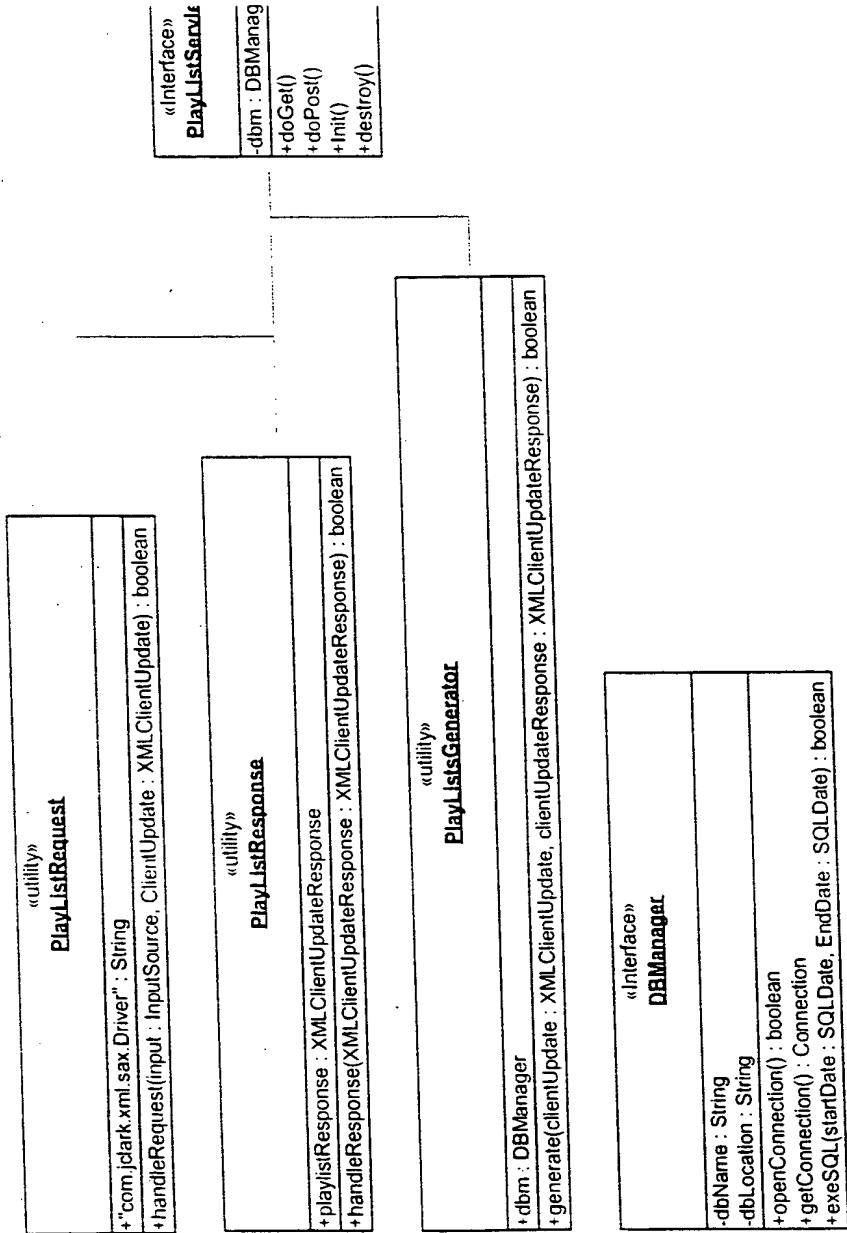


Fig. 22

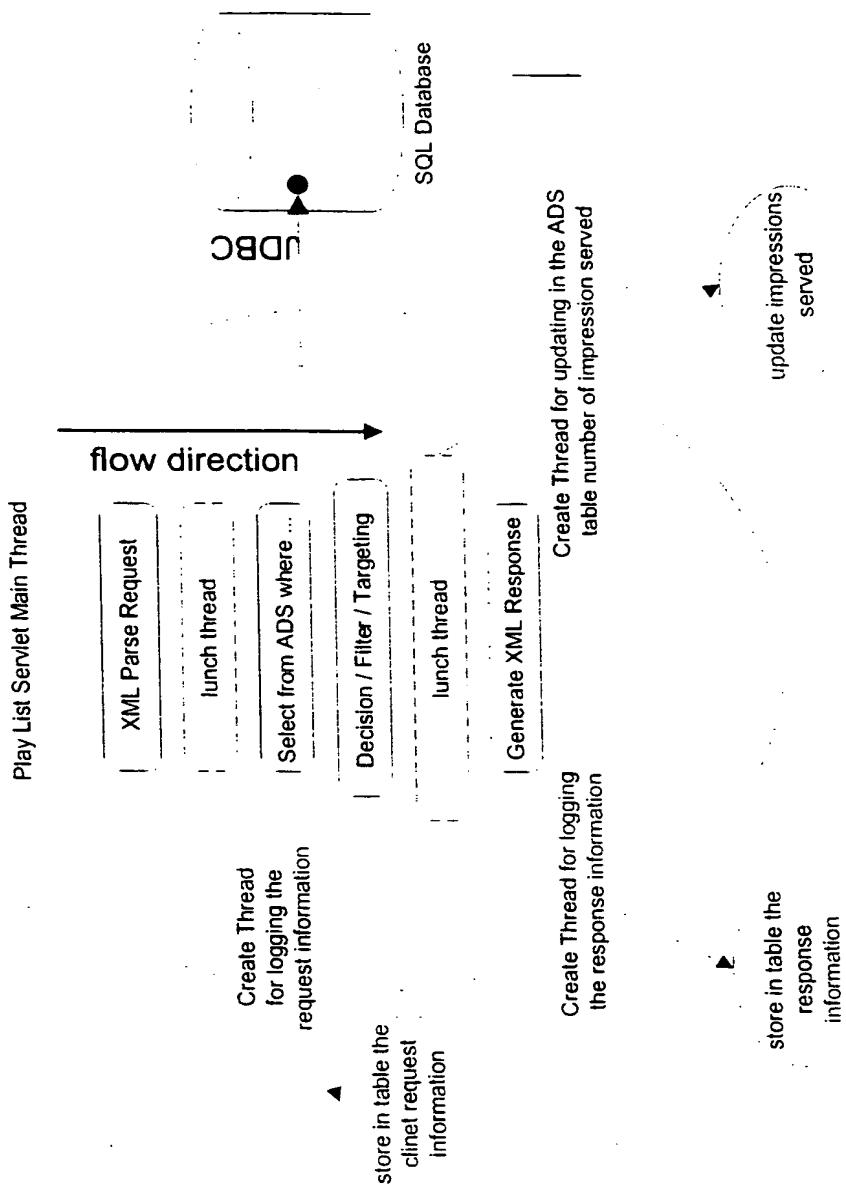


Fig. 23